**ABSTRACT** 

The COVID-19 pandemic that occurred in early 2020 has infected many

people. Until the time this final project proposal was written, there had been 331

million cases of the COVID-19 virus that had infected all over the world. The

infection was caused by crowds of people not wearing masks in several places.

However, some Indonesians still often neglect to use masks in public places. Wearing

a mask is also the most effective strategy to fight the spread of the COVID-19 virus.

Therefore, an Arduino-based COVID-19 Mask Detection System was created

with the CNN Model MobileNetV2. The system is made using the python language

with several support tools. The system will be applied to the Arduino Uno with and a

connected webcam. The tool will use several functions such as automatic hand

washing and automatic closing gate, if you use a mask and wash your hands, the

demo will provide access to the place.

The result is that the demo is able to work well with a success percentage of

80.5% from 30 trials and the classification model gets an accuracy of 99%.

**Keywords**: COVID-19, Convoutional Neural Network, Mobile NetV2, Face Mask

Detection, Arduino Uno.

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